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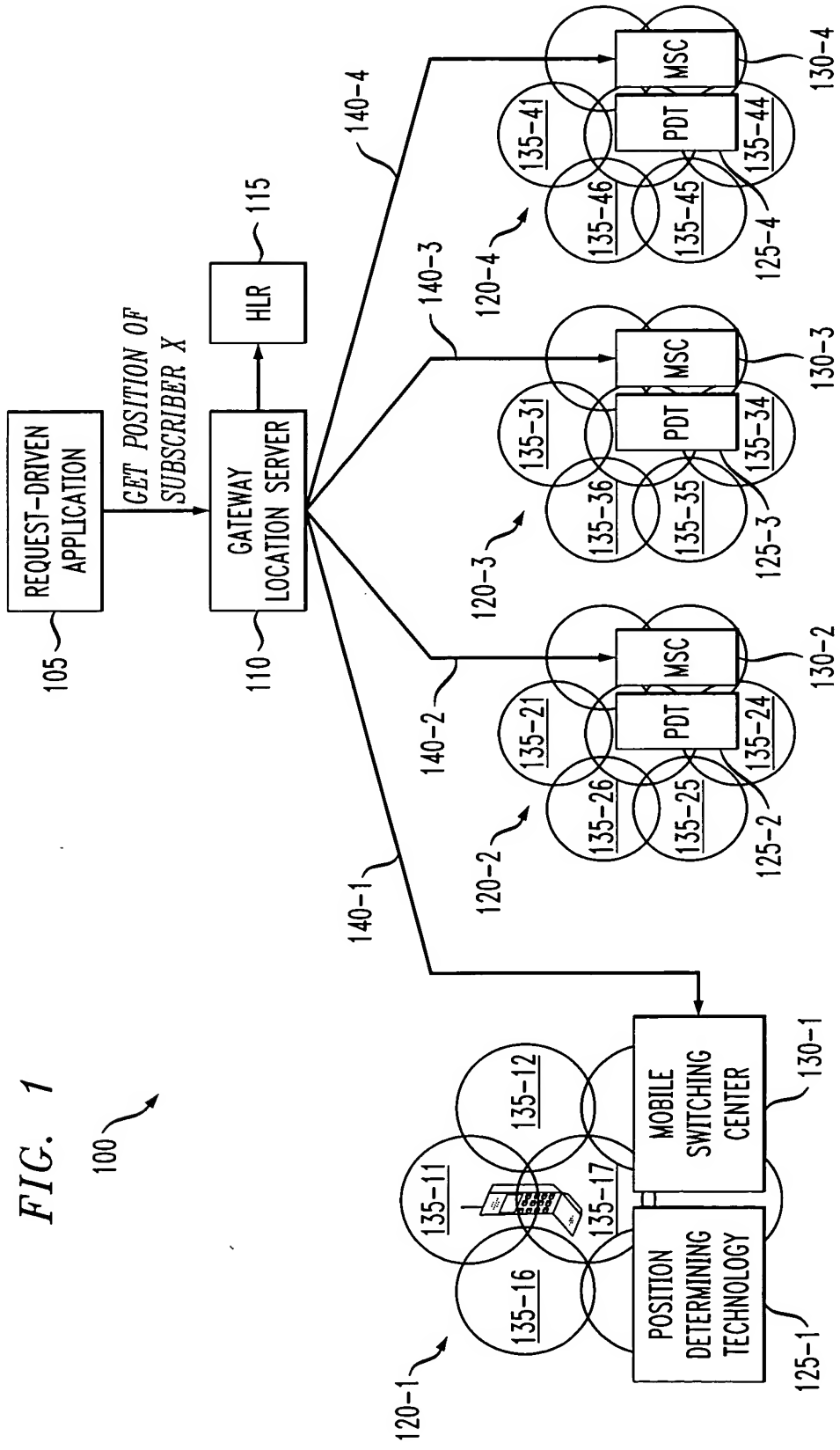

FIG. 1

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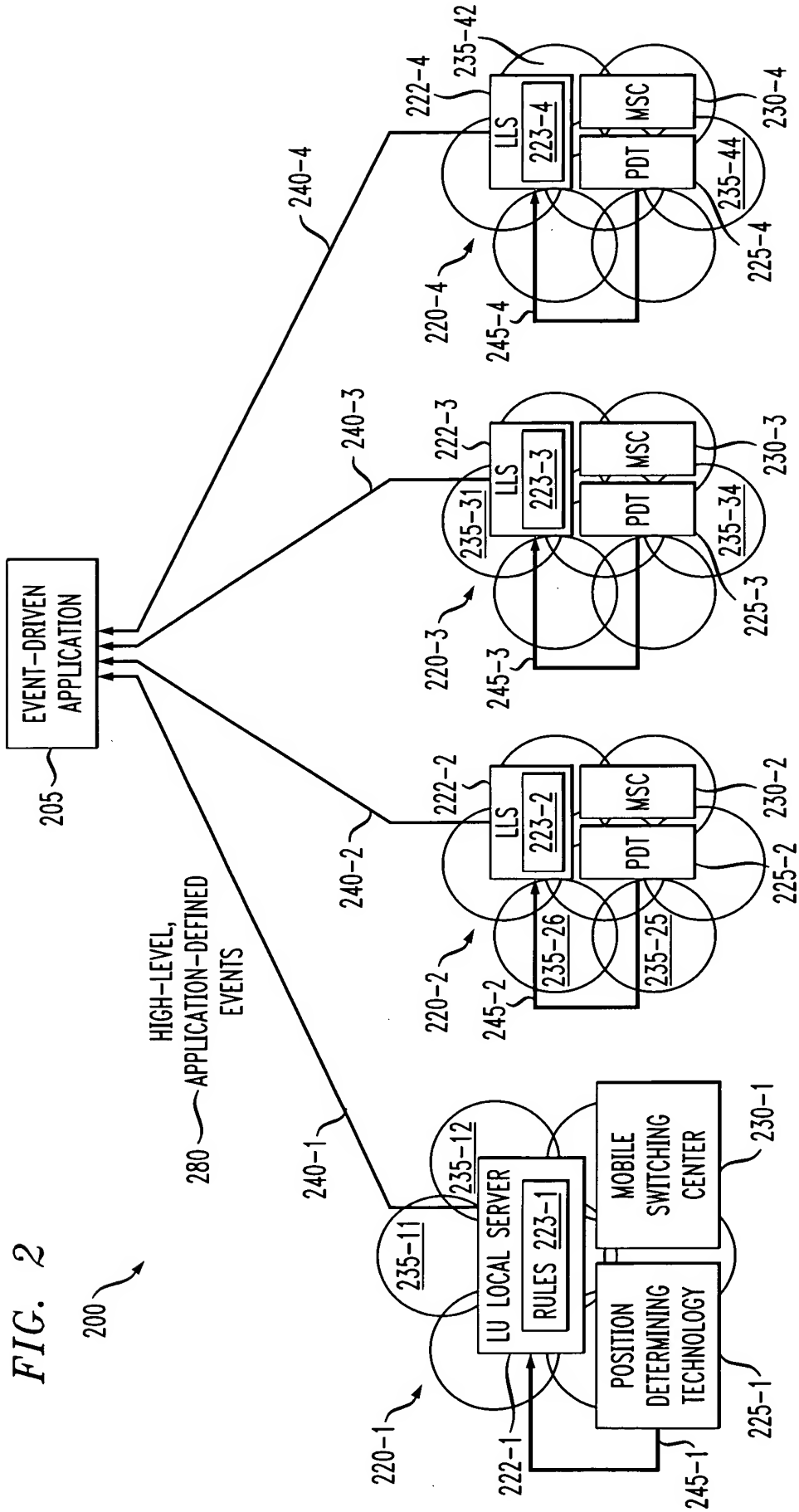

FIG. 2

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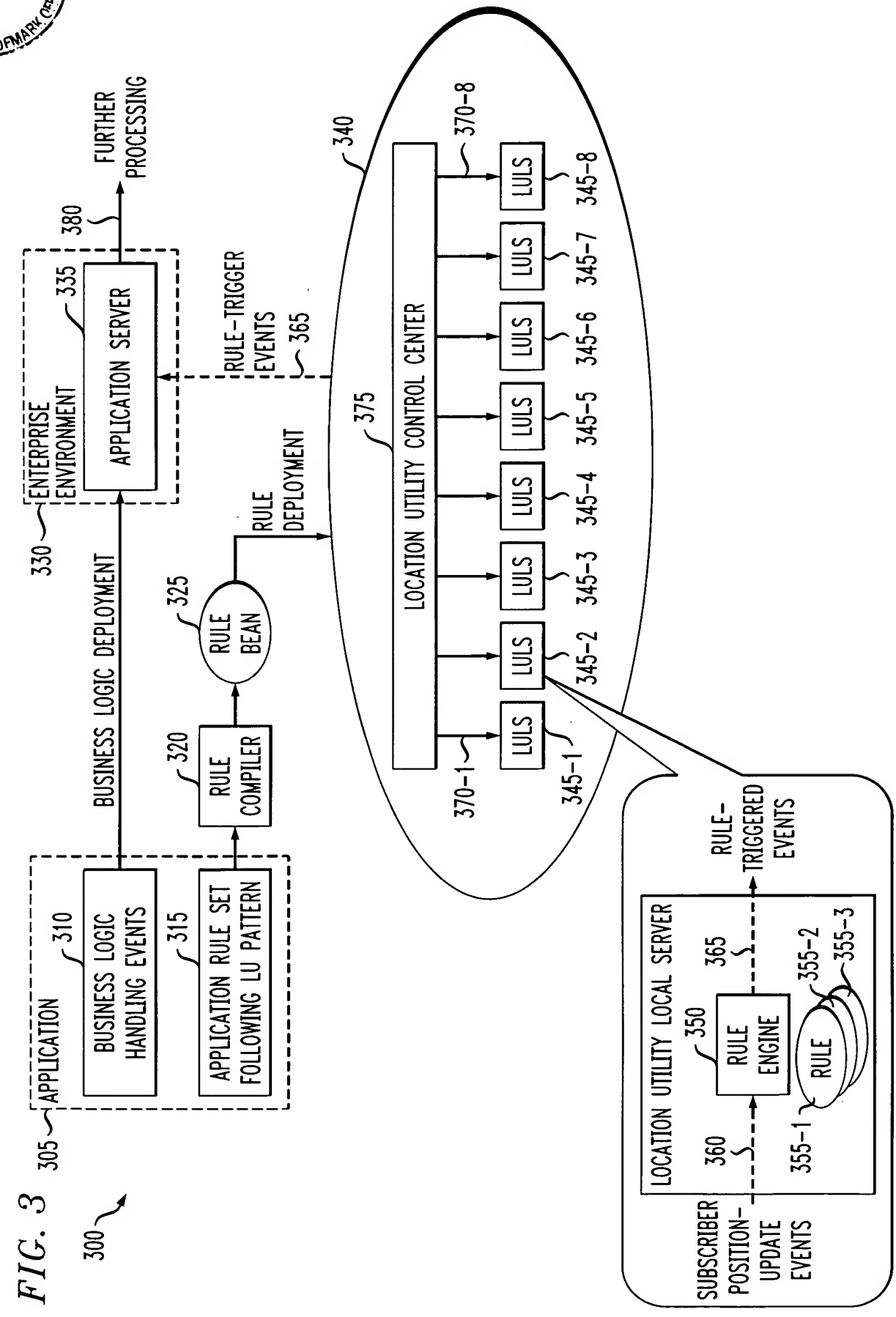

FIG. 3

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FIG. 4

```
spatial_rule → rule_expr
rule_expr    → rule_expr OR rule_expr
             | rule_expr AND rule_expr
             | NOT rule_expr
             | rule_func
rule_func    → containedIn {polygon | polygonClass+}
             | withinDistanceOf entity distance
             | hasIdentity {subscriber | subscriberClass+}
             | scalar_func{< | <= | == | != | >= | >} scalar_func
             | timer period {subscriber | subscriberClass+}
polygon      → representation of a polygon
subscriber   → string literal
entity       → subscriber | subscriberClass+ | point | pointClass+
distance     → scalar_func
point        → representation of a point
scalar_func  → SPRField component
             | distanceFrom {subscriber | point}
             | distanceTraveledSince {point | time} {route | path}
             | constant numeric literal
             | reference resourceID
component    → X | Y | Z | SPEED | BEARING | TIME | ...
resourceID   → string literal
```

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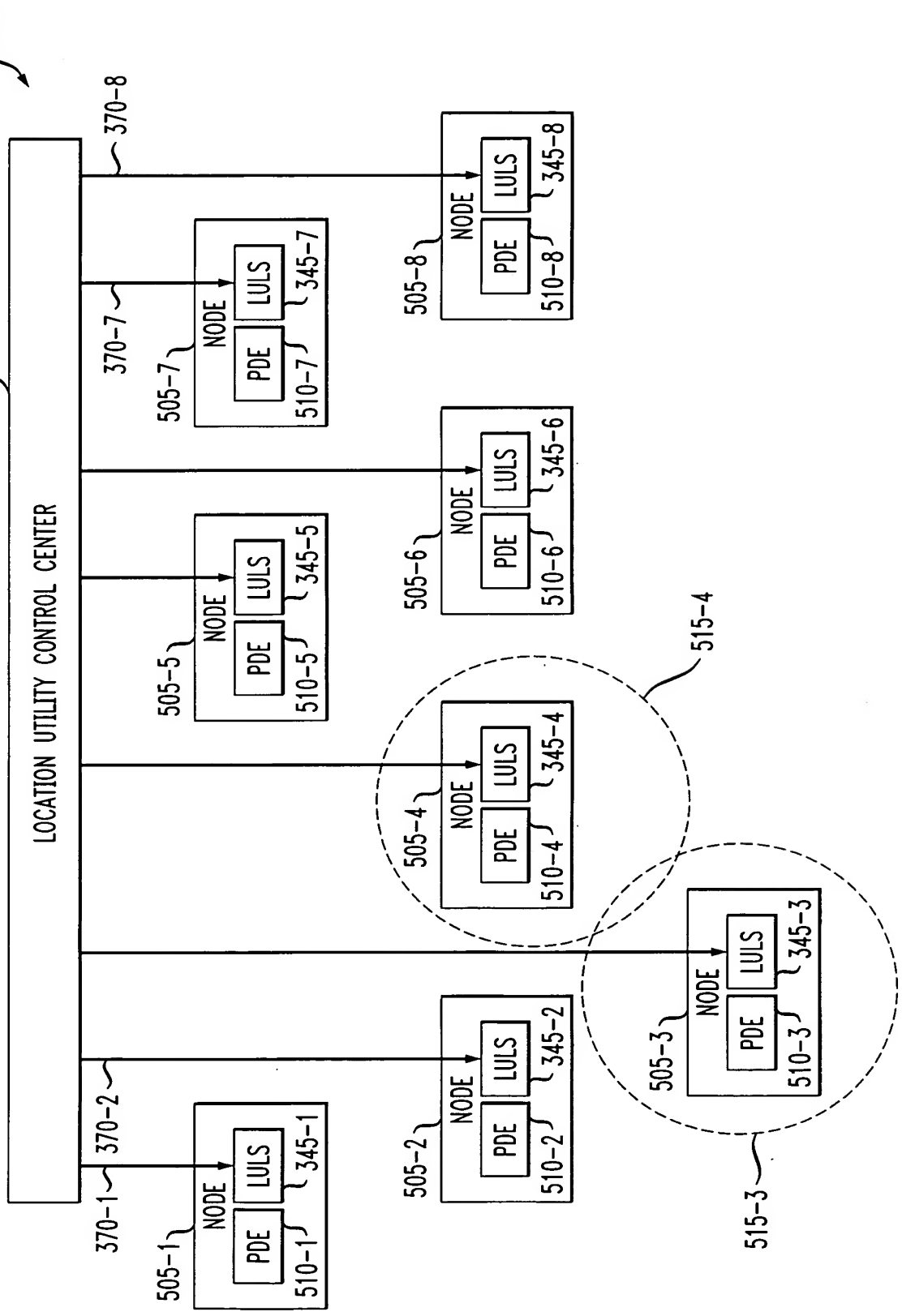
FIG. 5



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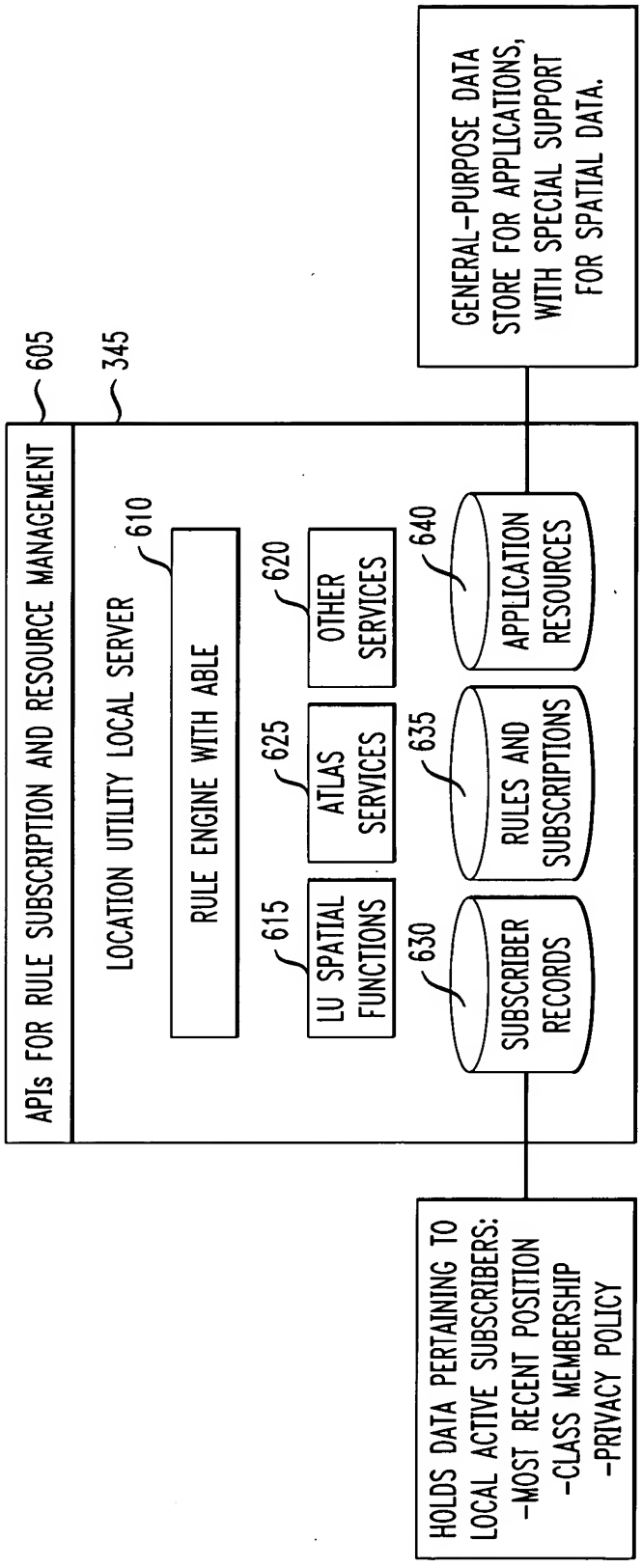

FIG. 6

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FIG. 7

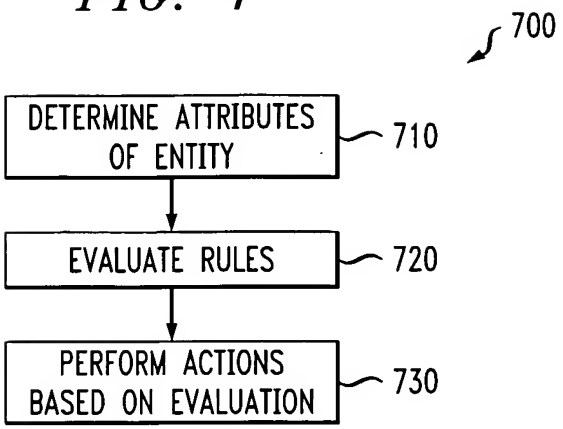
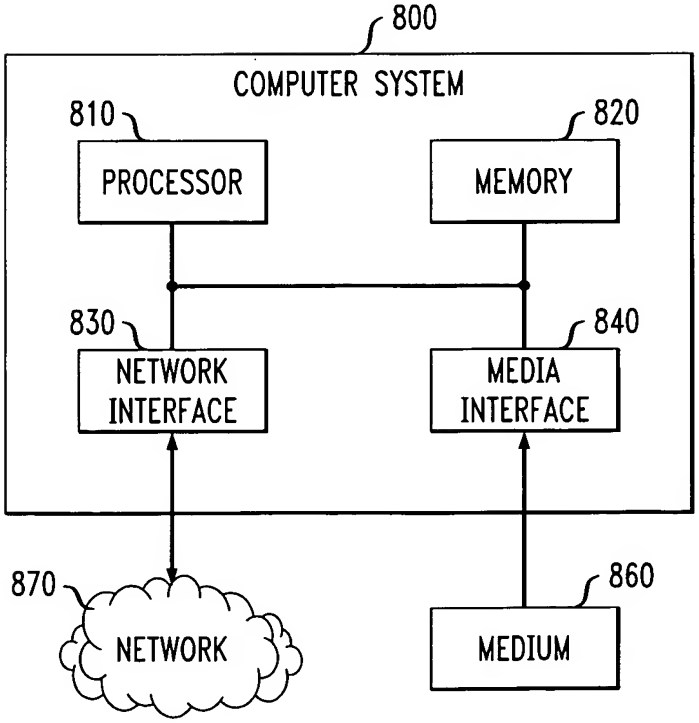
FIG. 8